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Client Matter No: 80168.0317  
Express Mail No.: EV331754137US  
Serial No: 09/922,032

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. 09/922,032

Application of: William J. Young and Janice L. Platt

Filed: July 31, 2001

Art Unit: 2171

Examiner: To, Baoquoc N.

Attorney Docket No. P5132

For: DATABASE MIGRATION

Confirmation No.: 7266

Customer No.: **32658****RECEIVED**

NOV 26 2003

Technology Center 2100

DECLARATION OF PRIOR INVENTION UNDER 37 C.F.R. § 1.131

## MAIL STOP NON-FEE AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

1. This Declaration and the accompanying documentary evidence are being submitted to establish conception and reduction to practice of the invention claimed in the above application in the United States at a date prior to August 1, 2000 the application filing date of the relevant reference: U.S. Patent No. 6,523,036 B1 to Hickman et al entitled INTERNET DATABASE SYSTEM.

2. We, William J. Young and Janice L. Platt, are the co-inventors of the invention recited in pending claims 1-20 of the above application. At the time we conceived of and reduced to practice the invention recited in pending claims 1-20 of the present application, we were working for Sun Microsystems, Inc. at its facility in Broomfield, Colorado. We made the invention at our place of employment in Broomfield, Colorado.

3. We conceived and reduced to practice the invention prior to August 1, 2000, as is shown by the enclosed copy of our Invention Disclosure Form. While the dates

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on the Invention Disclosure Form have been redacted, we verify that these dates are prior to August 1, 2000.


4. We also declare that the method of migrating a database of pending claims 1-20 are disclosed in the Invention Disclosure Form including, but not limited to:

- identifying the data model differences between the old database and the new database;
- defining views to abstractly represent the data;
- writing scripts to write functions to correct long character strings and special characters, build temporary tables to map old values to new values, extract data from the old database into insert statements for the new database;
- exporting a sample database;
- importing the sample export into a test area;
- running the previously created scripts;
- comparing the old data to the new data including;
- writing a wrapper script;
- writing hand off instructions; and
- handing off to DBAs.

5. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

\_\_\_\_\_  
William J. Young

Date: \_\_\_\_\_

  
\_\_\_\_\_  
Janice L. Platt

Date: 11-19-2003

Mail for Diane Terry-Davis

NOV 20 2003

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From: Celeste Filola <Celeste.Filola@corp.sun.com>  
To: bill.young@central.sun.com  
Cc: janice.platt@central.sun.com, scott.hauser@cng.sun.com, diane.terry-davis@cn  
Subject: P5132 - Invention Disclosure - Young  
Date: Fri, 11/13/03 09:13:54 -0700 (PDT)

Bill,

Here's a copy of your disclosure with the Sun reference number assigned to it (P5132). Please use this reference number when referring to this matter in the future. Should you have questions regarding the status of this disclosure, please contact your Managing Sun Attorney (listed below). Questions regarding any patent bonuses should be directed to Kristine Bombaci, Awards Program Coordinator, x50821. Thank you again for submitting this disclosure!

Kristine:

Approved for bonus?

\$250 each

- 1) William J. Young (EIN: 36695)
- 2) Janice L. Platt (EIN: 78868)

Note to the inventor(s): If approved, the bonus transaction will be processed two weeks from today. This means that your bonus may not show up until the pay period after the processing date.

YOUNG, BILL  
PLATT, JANICE

bill.young@Central  
janice.platt@Central

UBRM01-210 x77612  
UBRM01-207 x77939

----- Begin Forwarded Message -----

Date: Thu, 11/13/03 08:38:50 -0700 (PDT)  
From: "jplatt@central.sun.com" <nobody@patents.Corp.Sun.COM>  
To: undisclosed-recipients::

\*\*\*NEW INVENTION DISCLOSURE BY Janice L. Platt\*\*\*  
(jplatt@central.sun.com)

## ATTORNEY-CLIENT PRIVILEGED COMMUNICATION

Here is your copy of the new Invention Disclosure that you have just submitted. We will contact you shortly about preparing the patent application.

Thank you, Janice L. Platt, for submitting this disclosure.

Generated by the SunWeb Patent Disclosure Form, v. 1.5 [REDACTED]  
Found at: <http://patents.corp>

This is a new disclosure from Enterprise Services: Educational Services

Attorney Responsibility: Scott Hauser

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Note that the following sections are not in the same order as you entered on the form.

8. Division - Business Unit

Enterprise Services: Educational Services ✓

8B. Technical Category

The Technical Category is:

9. DEPARTMENT, etc.

Department: Operations and Support & Product Engineering  
Manager: Chuck Terry & Scott Teal  
Project:  
Product(s):

1. TITLE: Database Migration

This invention relates primarily to: SOFTWARE

2. BACKGROUND AND RELATED ART

A. The technical problem is as follows:

A production database required extensive changes to its data model. This needed to be accomplished while guaranteeing the retention of the current data.

The problem was how to migrate the old database model into the new database model without any loss of data.

B. The Closest Related Art is as follows:

Software modeling tools offer some data migration features. ER/Studio by Embarcadaro is such a tool. With this product you can perform database migration on a production system. This would not meet our requirements. We needed to create a generalized solution that could be tested on development machines. After the development testing phase was concluded the solution would then be automated and turned over to other teams of DBAs to run on their production databases with guaranteed success. These tools do not provide a bulk migration capability and are not used by all DBA teams.

3. DRAWING(S)

Drawings for this invention are AVAILABLE.

Comments about providing drawings:

I will send a hard copy and email copy to Celeste Filoia.  
(ATTACHED BELOW)

4. WRITTEN DESCRIPTION

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The invention is described as follows:

The invention is described as follows:

1. Identify the data model differences between the old database and the new database.
2. Define views to abstractly represent the data.
3. Write script to:
  - Write functions to correct long character strings and special characters.
  - Build temporary tables to map old values to new values
  - Extract data from old database into insert statements for the new database.
4. Export sample database.
5. Import sample export into a test area.
6. Run the scripts created in step 3 above.
7. Compare the old data to the new data.
  - Record counts
  - GUI
  - logs
8. Write wrapper script to automate
  - run script from #3
  - drop the old data
  - install new tables
  - fill new tables
9. Write instructions for hand off.
10. Handoff to DBAs.

Issues these steps solved:

1. Automation so product systems' DBAs could run scripts
2. Detailed verification of data correctness by multiple means
3. Repeatable process on multiple systems
4. General pattern to follow that will work for many migration situations

## 5. CONCEPTION OF INVENTION

Date of conception:

Date of first written description:

## 6. REDUCTION TO PRACTICE

Has the invention been reduced to practice? Yes.

Comments, if any, on conception of invention and/or first written description:

sample = original

→ testing phase

step 7: look @ the results of  
running the scripts  
look @ = physically, not  
automated.if step 7 fails, go  
back to step 3 and  
repeat steps 4, 5, 6.

step 7 fails on logging info

Import sample database =  
copy of sample is brought  
in.

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## 7. INVENTOR(S)

## INVENTOR 1:

EIN: 36695  
Name: William J. Young  
Address: 26069 Highway 72, Golden, CO 80404  
Citizenship: U.S.A.

## INVENTOR 2:

EIN: 78868  
Name: Janice L. Platt  
Address: 35 Elk Lane, Little, CO, 80127  
Citizenship: U.S.A.

## INVENTOR 3:

EIN:  
Name:  
Address:  
Citizenship:

## INVENTOR 4:

EIN:  
Name:  
Address:  
Citizenship:

## INVENTOR 5:

EIN:  
Name:  
Address:  
Citizenship:

COMMENTS on inventors or inventorship:

Bill Young  
500 Eldorado Blvd.  
MS: BRM05-204  
Broomfield, CO 80021

## 10. DATES OF PRODUCT TESTING AND RELEASE

Alpha Testing: [REDACTED]  
Beta Testing: [REDACTED]  
General release or sale: [REDACTED]

COMMENTS on product testing and release:

## 11. DISCLOSURE OF INVENTION

Has there been any disclosure of the invention? YES

## 12. INTERNAL DISCLOSURE(S)

First disclosure date (internal at Sun): [REDACTED]  
Name of first discloser at Sun: Internal Sun DBA's.

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COMMENTS about first internal disclosure:

Handed off to other divisions DBAs to run automatically.

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13. ARTICLE(S)

Have any articles been published? NO

DETAILS about publication of article(s):

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14. ADVERTISEMENTS, PRESS RELEASES AND PRODUCT ANNOUNCEMENTS

Any ads, press releases or product announcements? NO

DETAILS about any ads, press releases and product announcements:

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15. OUTSIDE DISCLOSURE(S)

Have there been any disclosures outside Sun? NO

Were all outside disclosures under NDA?

DETAILS about any disclosures outside Sun:

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16. TRADE SHOWS AND CONFERENCES

Are there any upcoming trade shows or conferences? NO

DETAILS about upcoming trade shows and/or conferences:

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17. OUTSIDE COUNSEL:

-----  
18. RELATED CASES

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ADDITIONAL COMMENTS BY INVENTOR:

This invention disclosure was submitted by Janice L. Platt, whose email address is:

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## DATABASE MIGRATION FLOW

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